Amendments to the Claims:

Claims 1-36 are pending in this application. Claims 1, 18 and 31 are independent.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (CURRENTLY AMENDED): An image sensing element for sensing to be used for an image sensing apparatus having an image sensing lens and a stop, and arranged to sense an image formed by an the image sensing lens, the image sensing lens comprising:

a pixel which includes a first light receiving region that includes a region where a principal ray having passed through the image sensing lens is incident, and a second light receiving region that does not include the region where the principal ray having passed through the image sensing lens is incident when a stop of the image sensing lens is in a stopped down aperture state thereby reducing the degree of decrease in sensor output compared with the sensor output in a full aperture state of the image sensing lens

a plurality of microlenses; and

a plurality of light-receiving portions arranged so as to correspond to the respective microlenses,

wherein each light-receiving portions includes first, second and third lightreceiving regions each outputting a signal, the first and second light-receiving regions having
substantially symmetrical shape and being arranged to sandwich the third light-receiving region,
center portions of the first and second light-receiving regions being wider than peripheral
portions of the first and second light-receiving regions.

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2 (CANCELLED):

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3 (CURRENTLY AMENDED): The element according to claim 2 1, wherein the two

divided first and second light-receiving regions are used to at least detect a focus state of the

image sensing lens.

4 (CURRENTLY AMENDED): The element according to claim 2 1, wherein the two

divided first and second light-receiving regions are used to detect a focus state of the image

sensing lens and photograph an object.

5 (CURRENTLY AMENDED): The element according to claim 2 1, wherein one of the two

divided first and second light-receiving regions receives a beam from one of two predetermined

regions on a pupil of the image sensing lens and the other of the two-divided first and second

light-receiving regions receives a beam from the other of the two predetermined regions on the

pupil of the image sensing lens, the two predetermined regions being regions that sandwich an

optical axis.

6 (CURRENTLY AMENDED): The element according to claim 2 1, wherein the first third

light-receiving region is used to determine a time during which charges are accumulated in the

first and second light-receiving region regions.

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7 (CURRENTLY AMENDED): The element according to claim 2 1, further comprising a function of individually outputting charges accumulated in the first, second and third light-receiving region and charges accumulated in the two divided light-receiving regions, and a function of outputting a sum of charges accumulated in the first, second and third light-receiving region and charges accumulated in the two divided light receiving regions.

8 (CANCELLED):

9 (CURRENTLY AMENDED): The element according to claim 2 1, wherein the first third light-receiving region is relatively narrow narrower than a width of each of the first and second light-receiving regions at a center and relatively wide wider than the width of each of the first and second light-receiving regions at two ends.

10 (CANCELLED):

11 (CURRENTLY AMENDED): The element according to claim 2 1, wherein a region formed from the first, and second and third light-receiving regions has a substantially regular polygonal shape.

12 (CURRENTLY AMENDED): The element according to claim 2 1, wherein a region formed from the first, second and third light-receiving regions has a shape substantially obtained by cutting off each corner of a square.

13 (CURRENTLY AMENDED): The element according to claim 1, further comprising a wherein the microlens which causes two divided is arranged to cause the first and second light-receiving regions to respectively receive beams from two predetermined regions on a pupil of the image sensing lens, the two predetermined regions being regions that sandwich an optical axis.

14-17 (CANCELLED):

18 (CURRENTLY AMENDED): An image sensing apparatus comprising:

an image sensing element having a pixel which includes a first light-receiving region that includes a region where a principal ray having passed through an image sensing lens is incident, and a second light receiving region that does not include the region where the principal ray having passed through the image sensing lens is incident when a stop of the image sensing lens is in a stopped down aperture state thereby reducing the degree of decrease in sensor output compared with the sensor output in a full aperture state of the image sensing lens arranged to sense an image formed by an image sensing lens; and

a control unit for detecting arranged to detect a focus state of the image sensing lens by using the second light receiving region, and performing perform focus adjustment,

wherein said image sensing element comprises:

a plurality of microlenses, and

a plurality of light-receiving portions arranged so as to correspond to the respective microlenses, each light-receiving portion including first, second and third light-receiving regions each outputting a signal, the first and second light-receiving regions having substantially symmetrical shape and being arranged to sandwich the third light-receiving region, center portions of the first and second light-receiving regions being wider than peripheral portions of the first and second light-receiving regions, and

wherein said control unit is arranged to detect a focus state of the image sensing lens by using the first and second light-receiving regions.

19 (CURRENTLY AMENDED): The apparatus according to claim 18, wherein said control unit controls photographing operation so as to photograph an object by using the <u>first and</u> second light-receiving <u>region</u> <u>regions</u>.

20 (CURRENTLY AMENDED): The apparatus according to claim 18, wherein said control unit determines, by using the first third light-receiving region, a time during which charges are accumulated in the first and second light-receiving regions.

21 (CURRENTLY AMENDED): The apparatus according to claim 18, wherein said control unit controls a time during which charges are accumulated in the first and second light-receiving

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region regions, in accordance with an exposure amount of the first third light-receiving region in

focus adjustment.

22 (CURRENTLY AMENDED): The apparatus according to claim 18, wherein said control

unit individually reads out charges accumulated in the first, second and third light-receiving

region and charges accumulated in the second light-receiving region regions in focus adjustment,

and reads out a sum of charges accumulated in the first, second and third light-receiving region

and charges accumulated in the two divided light-receiving regions in photography.

23 (CANCELLED):

24 (CURRENTLY AMENDED): The apparatus according to claim 23 18, wherein the two

divided first and second light-receiving regions receive beams from two predetermined regions

on a pupil of the image sensing lens, the two predetermined regions being regions that sandwich

an optical axis.

25 (CURRENTLY AMENDED): The apparatus according to claim 23 18, wherein an interval

between the two divided first and second light-receiving regions is relatively narrow at a center

of the first third light-receiving region and relatively wide at two ends of the first third light-

receiving region.

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26 (CURRENTLY AMENDED): The apparatus according to claim 23 18, wherein the first

third light-receiving region is relatively narrow at a center and relatively wide at two ends.

27 (CURRENTLY AMENDED): The apparatus according to claim 23 18, wherein the first

third light-receiving region is narrower than a width of each of the two divided first and second

light-receiving regions at a center, and wider than the width of each of the two divided first and

second light-receiving regions at two ends.

28 (CURRENTLY AMENDED): The apparatus according to claim 23, wherein a region

formed from the first, and second and third light-receiving regions has a substantially regular

polygonal shape.

29 (CURRENTLY AMENDED): The apparatus according to claim 23 18, wherein a region

formed from the first, second and third light-receiving region has a shape substantially obtained

by cutting off each corner of a square.

30 (ORIGINAL): An image processing apparatus comprising the image sensing apparatus

defined in claim 18.

31-36 (CANCELLED):

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